

INSTALLATION & OPERATION MANUAL



FWTF-42 HEAVY DUTY GAS FRYERS

MODEL

FWTF-42

ML-136400



For additional information on Wolf Range or to locate an authorized parts and service provider in your area, visit our website at www.wolfrange.com

WOLF RANGE
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FORM 35639 (03-05)

IMPORTANT

OPERATING, INSTALLING AND SERVICE PERSONNEL

WARNING

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, INJURY OR DEATH. READ THE INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS THOROUGHLY BEFORE INSTALLING OR SERVICING THIS EQUIPMENT.

IN THE EVENT A GAS ODOR IS DETECTED, SHUT DOWN UNITS AT MAIN SHUTOFF VALVE AND CONTACT THE LOCAL GAS COMPANY OR GAS SUPPLIER FOR SERVICE.

IN THE EVENT OF A POWER FAILURE, DO NOT ATTEMPT TO OPERATE THIS DEVICE.

FOR YOUR SAFETY, DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS OR LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE.

All installation, start-up and service on this equipment is to be performed by qualified, certified, licensed and/or authorized installation and service personnel. Service may be obtained by contacting the Factory Service Department, Factory Representative or Local Authorized Servicer. Visit our website, www.wolfrange.com, to locate an Authorized Servicer in your area.

DEFINITIONS

QUALIFIED and/or AUTHORIZED OPERATING PERSONNEL

This appliance is only for professional use and shall only be used by qualified people. Qualified or authorized operating personnel are those who have carefully read the information in this manual and are familiar with the equipment's function or have had previous experience with the operation of the equipment covered in this manual.

QUALIFIED INSTALLATION PERSONNEL

Qualified installation personnel are individuals, a firm, corporation or company which either in person or through a representative are engaged in, and are responsible for:

1. The installation of gas piping from the outlet side of the gas meter, or the service regulator when the meter is not provided, and the connection and installation of the gas appliance. Qualified installation personnel must be experienced in such work, be familiar with all precautions required and have complied with all requirements of state and local authorities having jurisdiction. In the European Union Community - installation must comply with the national or local requirements of the country of destination of the appliance.
2. The installation of electrical wiring from the electric meter, main control box or service outlet to the electric appliance must be electrically grounded in accordance with local codes or national requirements. Qualified installation personnel must be experienced in such work, be familiar with all precautions required and have complied with all requirements of state or local authorities having jurisdiction.

QUALIFIED SERVICE PERSONNEL

Qualified service personnel are those who are familiar with Wolf equipment and who have been endorsed by the Wolf Range. All authorized service personnel are required to be equipped with a complete set of service and parts manuals and stock a minimum amount of parts of Wolf equipment.

INSTALLATION, OPERATION AND CARE OF MODELS FWTF-42 HEAVY DUTY GAS FRYERS

PLEASE KEEP THIS MANUAL FOR FUTURE USE

GENERAL

Your Wolf Range Gas Fryer is produced with quality workmanship and material. Proper installation, usage and maintenance will result in many years of satisfactory performance.

It is suggested that you thoroughly read this entire manual and carefully follow all of the instructions provided.

OPTIONAL FIELD INSTALLABLE ACCESSORIES

Tank Brush	4' Quick Disconnect Hose
Tank Cover	(2) Twin Fry Baskets
(4) Casters	Single Basket

INSTALLATION

Before installing the fryer, verify that the type of gas (natural or propane) agrees with the specifications on the fryer data plate which is located on the inside of the door. Also be sure the fryer is built for the installation elevation.

The fryer must be restrained with adequate ties to prevent tipping when installed in order to avoid the splashing of hot liquid.

UNPACKING

This fryer was carefully inspected before leaving the factory. The transportation company assumes full responsibility for safe delivery upon acceptance of the shipment. Immediately after unpacking the fryer, check for possible shipping damage. If the fryer is found to be damaged, save the packaging material and contact the carrier within 15 days of delivery.

Do not use the door or its handle to lift or move the fryer.

ITEMS PACKAGED WITH FRYER

Crumb Screen	Basket Hanger	Warranty and Service Pack
Drain Pipe	(2) Twin Fry Baskets	
(4) Legs	Manual	

LOCATION

CAUTION: The equipment area must be kept free and clear of combustible substances.

Installation clearances:

	COMBUSTIBLE CONSTRUCTION	NONCOMBUSTIBLE CONSTRUCTION
Back:	6"	0"
Right Side:	6"	0"
Left Side:	6"	0"

The installation location must allow adequate clearances for servicing and proper operation. A minimum front clearance of 35" (88 cm) is required.

There must be at least 16" (406.4 mm) clearance between the fryer and any open top flame units. Adequate clearances for servicing and proper operation must be allowed.

Install the fryer in an area with sufficient air supply for combustion of the gas at the fryer burners. Provide adequate clearance for air openings into the combustion chamber. Do not obstruct the flow of combustion and ventilation air.

Do not permit fans to blow directly at the fryer. Wherever possible, avoid open windows next to the sides or back of the fryer. Avoid wall-type fans which create air cross currents within the room.

INSTALLATION CODES AND STANDARDS

Your Wolf Fryer must be installed in accordance with:

In the United States of America:

1. State and local codes.
2. National Fuel Gas Code, ANSI-Z223.1 (latest edition). Copies may be obtained from The American Gas Association, Inc., 1515 Wilson Blvd., Arlington, VA 22209.
3. ANSI-NFPA Standard #96, Vapor Removal from Cooking Equipment, (latest edition), available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

In Canada:

1. Local codes.
2. CSA B149.1 Natural Gas and Propane Installation Code.
3. CSA C22.2 Canadian Electrical Code.

The above are available from the Canadian Standard Association, 5060 Spectrum Way, Suite 100, Mississauga, Ontario, Canada L4W 5N6.

ASSEMBLY

Legs

Position fryer in an open space near the final installation area. Tilt fryer back, being careful to avoid scratching the finish. Thread front legs clockwise into mounting plates provided on the bottom of the fryer until seated. Tilt to front and thread back legs similarly. Carefully raise fryer to its normal position and place it in the installing location.

Fryers Mounted on Optional Casters

Fryers mounted on casters must use a flexible connector (NOT SUPPLIED BY WOLF) that complies with the Standard for Connectors of Movable Gas Appliances, ANSI-Z21.69 • CSA6.16 and a quick-disconnect device that complies with the Standard for Quick-Disconnect Devices for Use With Gas Fuel, ANSI-Z21 • CSA6.9.

In addition, adequate means must be provided to limit the movement of the appliance without depending on the connector and the quick-disconnect device or its associated piping to limit the appliance movement. Attach the restraining device to the rear of the fryer as shown in Fig. 1.

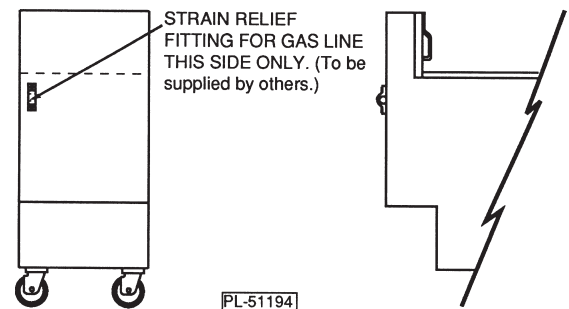


Fig. 1

If it is necessary to disconnect the restraint, turn off the gas supply before disconnection. Reconnect the restraint before turning the gas supply on and returning the fryer to its installation position.

Instructions for installing casters to the fryer are included with the casters.

LEVELING THE FRYER

Stand Alone Installations

Once gas connections have been made, place a spirit level on top of the fryer. Adjust the legs to ensure that the fryer is level front-to-back and side-to-side in the final installed position.

Battery Installations

When the fryer is part of a battery lineup, line the fryer up front-to-back and side-to-side with adjacent battery equipment. Equipment front tops and manifold pipes must be aligned with adjacent equipment. Once the fryer is in its exact location in the battery lineup, place a spirit level on top of the fryer. Adjust the legs to ensure that the fryer is level front-to-back and side-to-side in the final installed position.

GAS CONNECTIONS

CAUTION: All gas supply connections and any pipe joint compound used must be resistant to the action of propane gases.

WARNING: PRIOR TO LIGHTING, CHECK ALL JOINTS IN THE GAS SUPPLY LINE FOR LEAKS. USE SOAP AND WATER SOLUTION. DO NOT USE AN OPEN FLAME.

Rear Gas Connection for Stand Alone Installations

The gas inlet is located at the lower left rear.

Codes require that a gas shutoff valve be installed in the gas line ahead of the fryer.

The gas supply line must be at least the equivalent of 1/2" (12.7 mm) iron pipe. If using the optional quick-disconnect flex hose, 3/4" (19 mm) iron pipe must be used unless 3/4" (19 mm) to 1/2" (12.7 mm) reducing fittings are used. Make sure the pipes are clean and free of obstructions, dirt, and piping compound.

After piping has been checked for leaks, all piping receiving gas should be fully purged to remove air.

Front Gas Connection for Battery Installations

Codes require that a gas shutoff valve be installed in the gas line ahead of the fryer and battery of equipment.

The gas manifold of a battery lineup of which the fryer is a part, must be installed using a regulator design-certified by a nationally recognized testing lab to the applicable ANSI standard. The pressure regulator must have a maximum regulation capacity to handle the total connected load and must have an adjustment range for manifold pressure marked on the equipment rating plate(s). If the manifold pressure of the connected equipment is not the same, a separate regulator must be supplied for all devices operating under different manifold pressure ratings.

CONNECTION OF MANIFOLDS IN BATTERY

1. If the fryer requires alignment to match the battery lineup, remove the front panel and door assembly. Start fryer alignment by loosening 2 bolts on each U bracket securing the 1 1/4" (31.8 mm) manifold pipe to the fryer.
2. Shift the 1 1/4" (31.8 mm) manifold pipe left or right, in or out, until alignment with the equipment battery manifold pipe is achieved. While holding the fryer manifold in place, tighten the holding screws on the U bracket back in place.
3. Apply pipe sealer resistant to the action of propane gases around the threaded edge(s) of the fryers 1 1/4" (31.8 mm) manifold pipe.
4. Engage the union nut on the fryer manifold pipe with the male fitting on the battered unit adjacent to the fryer. Draw up the union hand tight. Continue connecting the manifolds, following these steps 1 - 4, until all units in the battery lineup are installed.
5. Using channel locks, tighten all connection points along the manifold of the entire equipment battery.
6. Install manifold end cap if applicable.
7. Check all connection points along the manifold for gas leaks.

TESTING THE GAS SUPPLY SYSTEM

When test pressures exceed $\frac{1}{2}$ psig (3.45 kPa), the fryer and its individual shutoff valve must be disconnected from the gas supply piping system.

When test pressures are $\frac{1}{2}$ psig (3.45 kPa) or less, the fryer must be isolated from the gas supply system by closing its individual manual shutoff valve.

FLUE CONNECTIONS

DO NOT obstruct the flow of flue gases from the flue located at the rear of the fryer. It is recommended that the flue gases be ventilated to the outside of the building through a ventilation system installed by qualified personnel.

Adequate ventilation must be provided and must comply with NFPA Standard #96 (latest edition), and with local codes.

Never make flue connections directly to the fryer.

The fryer must be located under a hood which has an adequate connection to an exhaust duct. The hood must extend 6" (152.4 mm) beyond fryer sides.

Clearance above fryer should be adequate for products of combustion to be removed efficiently. An 18" (457 mm) minimum clearance should be maintained between the flue vent and the filters of the hood venting system.

Information on the construction and installation of ventilating hoods may be obtained from the standard for "Vapor Removal from Cooking Equipment," NFPA No. 96 (latest edition), available from the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269.

Adequate air should be provided in the kitchen to replace air taken out by the ventilating system. This will prevent fryer function from being affected by a reduced atmospheric pressure.

OPERATION

WARNING: HOT OIL AND PARTS CAN CAUSE BURNS. USE CARE WHEN OPERATING, CLEANING AND SERVICING THE FRYER.

WARNING: SPILLING HOT OIL CAN CAUSE SEVERE BURNS. DO NOT MOVE FRYER WITHOUT DRAINING ALL OIL FROM THE TANK.

Tank warranty may be voided by improper operation. Turn gas valve off when draining or filling.

FILL FRY TANK WITH LIQUID SHORTENING

CAUTION: Before turning the burners on, the fry tank must be filled with liquid shortening. If this is not done, the tank walls can be damaged. Warpage can cause leaks.

Use only liquid shortening. Fill fry tank to the "oil level" line on the back wall (Fig. 2).

DO NOT melt solid shortening in the fry tank. The fry tank will be damaged and the shortening will be scorched.

Do not overfill tank.

Keep shortening between the MIN and MAX lines in fry tank. Add fresh shortening as needed.

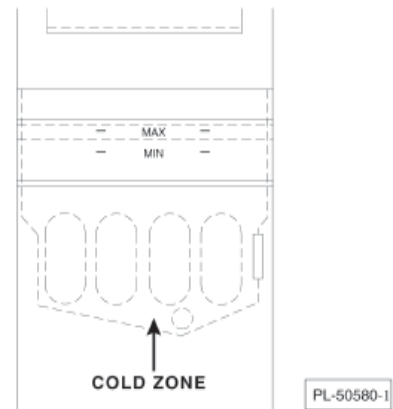


Fig. 2

OVER TEMPERATURE DEVICE

If the shortening becomes overheated, a high temperature shutoff device will turn the gas valve off and extinguish the pilot. DO NOT relight the pilot until the shortening temperature is below 300°F (149°C). If this situation persists, contact your local Wolf Range authorized service office.

LIGHTING THE PILOT

1. Turn thermostat OFF. Thermostat is located behind the door (Fig. 3).
2. Turn gas control valve knob to OFF/PILOT (Fig. 4). Wait 5 minutes for unburned gas to vent.
3. Push gas control knob in (Fig. 4).
4. While still holding knob in, light the pilot with a lit taper. Continue to depress knob for 30 seconds, then release the knob. Pilot should remain lit when knob is released.

If pilot does not remain lit, repeat Steps 2, 3, and 4.

5. Turn gas control knob to ON (Fig. 5).
6. If gas supply is interrupted, repeat Steps 1-5.

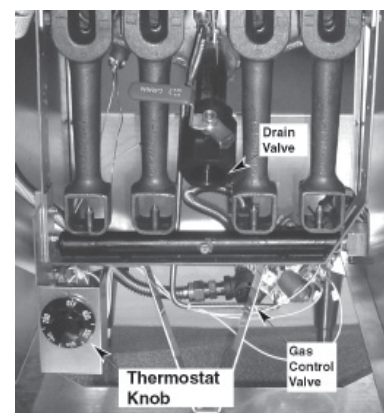


Fig. 3

TURNING THE FRYER ON

To turn the fryer on, set the thermostat knob to the desired temperature. After the set temperature has been reached, the gas control shuts off gas flow to the burners. The pilot remains lit. The burners will cycle on and off, maintaining the set temperature.

TURNING THE FRYER OFF

1. Turn the thermostat OFF.
2. Turn the gas control valve knob so the "I" in PILOT is opposite the INDEX. In this position, the pilot remains lit.
3. To shut off all gas to the system, including the pilot, turn the gas control valve knob to OFF.

EXTENDED SHUTDOWN

1. Turn the manual gas shutoff valve OFF.
2. Turn the thermostat knob OFF.
3. Turn the gas control valve knob to OFF.

FRYING FOODS

- Heat shortening to set temperature.
- Pieces of product to be fried should be about the same size to ensure the same doneness.
- Drain or wipe dry raw or wet foods to minimize spatter when lowering into the hot oil.
- Do not overfill baskets.
- Carefully lower baskets into oil.
- When frying doughnuts and fritters, turn product only once during frying.
- When cooking French fries or onion rings, shake basket several times in a way that does not spatter the shortening.
- Batter-covered foods should be dropped carefully, one by one, into shortening or basket. If you use the basket, first dip basket into the shortening to reduce batter build-up on basket surfaces.

When frying is completed, remove baskets or product. Hang baskets on rear basket hangers. Remove food and season it. Do not salt food over the shortening because salt could cause a chemical change in the oil.



Fig. 4



Fig. 5

SHORTENING LIFE

Shortening life may be extended by following these guidelines:

- Do not salt foods over the fryer.
- Use good quality shortening.
- Filter shortening at least daily.
- Replace shortening if it becomes poorly flavored.
- Keep equipment and surroundings clean.
- Set thermostats correctly.
- Remove excess moisture and particles from food products before placing in fryer.

Add approximately 15% new oil daily. Keep level of shortening between the MIN and MAX level on the fryer tank back wall. Add fresh shortening as needed.

DAILY FILTERING

Turn gas valve OFF when draining or filling.

The shortening should always be filtered while liquefied. A cold fryer will not drain properly because the shortening under the cold zone tube area will remain hard, even if the heat is on for a few minutes. If necessary, the clean-out rod may be used to carefully stir up hard fat to an area above the cold zone where it will melt. After the cold zone is liquefied, turn the fryer thermostat and gas valve OFF.

Shortening life will be extended by filtering at least once a day or more often if conditions warrant. A commercial power filter (available from other manufacturers) may be used. Follow the manufacturer's operating instructions for draining, straining, and replacing shortening in the fry tank.

Another way to filter is to drain the shortening from the drain pipe through a filter bag, or cover the receiving container with cheesecloth or other filtering material.

Filtering Procedure

1. Turn the fryer OFF.
2. Slowly remove the baskets, especially if shortening is hot, to prevent splashing.
3. Open the fryer door and attach the drain pipe to the drain valve.
4. Select a container of sufficient capacity and place it below the drain pipe.
5. If you are using a filter bag, tie it securely to the drain pipe. If other filter medium is used, place it in the container.
6. Open the drain valve carefully so the oil stream is directed through the filter.
7. With a small amount of warm shortening, flush out scraps and sediment in the fry tank. Drain the tank thoroughly and wipe clean.
8. If it is necessary to clean the tank more thoroughly follow the procedure shown in **CLEANING — WEEKLY OR AS REQUIRED**.
9. Close the drain valve.
10. Pour the strained shortening back into the vat.
11. Add shortening to the "oil level" line.

CLEANING

Daily

Clean your fryer regularly. Keeping the fryer clean and free of accumulated grease will prevent stubborn stains from forming. Wash all exterior surfaces at least once daily. Use a cloth with warm water and a mild soap or detergent. Follow with a clear rinse, then dry.

If regular cleaning is neglected, grease will be burned on and discolorations may form. These may be removed by washing with any detergent or soap and water. A self-soaping scouring pad may be used for particularly stubborn discolorations.

Always rub with the "GRAIN" in a horizontal direction. Do not use stainless steel wool pads on stainless steel finishes. Pieces of the steel wool will adhere to the stainless steel surface and cause rusting.

Weekly or as Required

1. Once the shortening has been drained, flush out scraps and sediment with a small amount of warm shortening. Allow the tank to drain thoroughly.
2. Close the drain valve and fill the tank with a non-corrosive, grease-dissolving commercial cleaner, following the manufacturer's instructions.
3. Set the thermostat at a temperature recommended by the manufacturer of the commercial cleaner and boil the solution for 15 to 20 minutes. Monitor boiling to prevent overflow.
4. Drain the cleaning solution from the tank.
5. Close the drain valve and refill the tank with water. Add 1 cup (237 ml) of vinegar to neutralize alkaline left by the cleaner. Bring the solution to a boil and allow it to stand for a few minutes.
6. Drain the tank and rinse thoroughly with clear, hot water. All traces of cleaner must be removed. Dry the tank thoroughly.
7. Close the drain valve.
8. Add shortening between the MIN and MAX level lines.

Cleaning Stainless Steel

Stainless steel may be cleaned with ordinary soap or detergent and water. To prevent water spots and streaks, rinse equipment thoroughly with warm water and wipe dry with a soft clean cloth. The addition of a rinsing agent will also help prevent spotting.

Fingerprints

Fingerprints are sometimes a problem on highly polished surfaces of stainless steel. They can be minimized by applying a cleaner that will leave a thin, oily or waxy film. Wipe cleaner on and remove excess with a soft dry cloth.

MAINTENANCE

WARNING: HOT OIL AND PARTS CAN CAUSE BURNS. USE CARE WHEN OPERATING, CLEANING AND SERVICING THE FRYER.

WARNING: SPILLING HOT OIL CAN CAUSE SEVERE BURNS. DO NOT MOVE FRYER WITHOUT DRAINING ALL OIL FROM THE TANK.

FLUE

Annually check the flue when it is cool to be sure it is free of obstructions.

SERVICE AND PARTS INFORMATION

To obtain service and parts information, contact the Wolf Range Authorized Servicer in your area (listed on our website, www.wolfrange.com), or contact the Wolf Range service department at the address or phone number shown on the cover of this manual.

When calling for service, the following information must be available: Model number, serial number, manufacture date (MD), gas type and voltage.